

CLAIMS

1. A code translation method for converting the format of user data placed in a user extension area in a received input code compliant with a certain standard to generate an output code or adding user data to a received input code compliant with a certain standard to generate an output code, comprising the steps of:

changing a parameter which determines an allowable range of the amount of data in the input code to comply with the format conversion or addition of the user data; and

multiplexing the input code obtained after the parameter change and the user data in a predetermined format to generate the output code according to the changed parameter.

2. The code translation method of claim 1, wherein the changed parameter is at least one of the bit rate value, the VBV (Video Buffering Verifier) buffer size value, and the VBV delay value in compression/encoding of multimedia information.

3. The code translation method of claim 2, further comprising the step of changing the bit rate value by a bit rate change estimation value of code translation.

4. The code translation method of claim 2, further comprising the step of changing the VBV buffer size value to a maximum value allowed by the standard.

5. The code translation method of claim 2, further comprising the step of changing the VBV delay value to make the output code conformable to a variable bit rate setting.

6. The code translation method of claim 1, further comprising the step of generating additional information for distinguishing the user data included in the input code from the other main data,

wherein generation of the output code is advanced according to the additional information.

7. The code translation method of claim 6, further comprising the step of minimizing a synchronization difference between main data and user data in the output code.

8. The code translation method of claim 7, further comprising the step of, if the synchronization difference between main data and user data in the output code is greater than a predetermined difference, changing the data amount of the main data.

9. The code translation method of claim 8, further comprising the step of achieving the data amount change of the main data by decoding only a specific type of data in the main data and re-encoding a result of the decoding.

10. The code translation method of claim 6, further comprising the step of deleting redundant data included in the main data.

11. A code translation device for converting the format of user data placed in a user extension area in a received input code compliant with a certain standard to generate an output code, comprising:

a data analyzing section for analyzing the input code and changing a parameter which determines an allowable range of the amount of data in the input code to comply with the format conversion of the user data and for generating additional information for

distinguishing the user data included in the input code from the other main data; and

a multiplexing section for multiplexing the input code obtained after the parameter change and the user data in a predetermined format according to the additional information to generate the output code according to the changed parameter.

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12. The code translation device of claim 11, further comprising a data buffer for temporarily storing the input code obtained after the parameter change together with the additional information.

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13. The code translation device of claim 12, wherein:

the data analyzing section has a function of sequentially generating the additional information for each of a plurality of processing units included in the input code and writing the generated additional information in the data buffer; and

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the additional information includes position information for identifying a position of next additional information in the data buffer, and the multiplexing section accesses the data buffer using the position information in the reading of the next additional information.